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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Thomas W. Lanzatella et al.

Examiner: Unknown

Serial No.: 09/997602

Group Art Unit: 2152 2171

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Docket: 01557.001US1

Title: METHODS, FUNCTIONAL DATA, AND SYSTEMS TO REPRESENT A STORAGE ENVIRONMENT

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

RECEIVED  
DEC 04 2002  
Technology Center #100

Prior to taking up the above-identified patent application for review, please amend the application as follows:

**IN THE CLAIMS**

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to amendment of previously pending claims 1, 9, 15, and 21. Claims 1-25 are now pending in the application. The specific amendments to individual claims are detailed in the following marked up set of claims.

501  
b1  
A1

1. A method to map a storage environment data object, comprising:  
receiving a reference to the data object in a first storage environment, wherein the data object resides in a second storage environment;  
generating a first data structure from the reference representing one or more physical locations of the data object within the second storage environment; [and]  
retaining the first data structure to interface with one or more of the physical locations of the data object from the first storage environment; and  
updating the first data structure when changes occur to the data object in the second storage environment.

A2

9. A method to represent a data storage object, comprising:  
identifying one or more storage locations for the data storage object housed within a first storage environment;